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Attorney's Docket No. 034691/273971

PATENT

AUG 0 8 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Kleine et al.

Appl. No.: 10/803,298 Confirmation No.: 5716 Filed: March 18, 2004 Group Art Unit: 2858

For: CIRCUIT AND METHOD FOR MEASURING DISTANCES

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

SUBMITTAL OF TRANSLATION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Sir:

For the information of the Examiner, enclosed is a copy of the English translation of the International Preliminary Examination Report as prepared by the International Bureau.

Respectfully submitted,

Charles B. Elderkin Registration No. 24,357

Customer No. 000826
ALSTON & BIRD LLP
Bank of America Plaza
101 South Tryon Street, Suite 4000
Charlotte, NC 28280-4000
Tel Charlotte Office (704) 444-1000
Fax Charlotte Office (704) 444-1111
#4735476v1

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on August 4, 2005

CERTIFICATE OF MAILING

Joyce D. Smith

Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT A	rticle 36 and Rule 70)	Sept. If pop. Society is an emissional control on the personal program and services.	
Applicant's or agent's file reference 4401/I/026 FOR FURTH	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No. International fil-	ling date (day/month/year)	Priority date (day/month/year)	
	ber 2002 (19.09.2002)	19 September 2001 (19.09.2001)	
International Patent Classification (IPC) or national classificati	tion and IPC		
Applicant MICRO-EPSILON ME	SSTECHNIK GMBH	& CO. KG	
This international preliminary examination report has and is transmitted to the applicant according to Articles.	ale 36.		
2. This REPORT consists of a total of5	sheets, including this cover	sheet.	
This report is also accompanied by ANNEXE amended and are the basis for this report and/70.16 and Section 607 of the Administrative I	or sheets containing rectine	tion, claims and/or drawings which have been ations made before this Authority (see Rule	
These annexes consist of a total of1	sheets.		
3. This report contains indications relating to the follow	wing items:		
I Basis of the report	•		
II Priority	•		
III Non-establishment of opinion with a	regard to novelty, inventive	step and industrial applicability	
IV Lack of unity of invention		•	
V Reasoned statement under Article 3: citations and explanations supporting	5(2) with regard to novelty, and such statement	inventive step or industrial applicability;	
VI Certain documents cited			
VII Certain defects in the international application			
VIII Certain observations on the internat	tional application		
Date of submission of the demand	Date of completion	n of this report	
04 April 2003 (04.04.2003)	12	2 March 2004 (12.03.2004)	
Name and mailing address of the IPEA/EP	Authorized officer		
Paesimile No.	Telephone No.		

Form PCT/IPEA/409 (cover sheet) (July 1998)



		international application No.				
IN	TERNATIONAL PRELIMINARY EXAMINATION REPORT	PCT/DE2002/003507				
I. Basis	f the report					
	egard to the elements of the international application:*					
	the international application as originally filed					
	the description:	, as originally filed				
	TOWAC .	, filed with the demand				
		· · · · · · · · · · · · · · · · · · ·				
X	the claims:	(2)				
	pages 2-24	, as originally filed				
described and the Manager	pages, as amended pages	(together with any statement under Article 19 , filed with the demand				
		tter of 21 November 2003 (21.11.2003)				
K-21		intel OT				
\boxtimes	the drawings:					
		, as originally filed				
	pages	, filed with the demand				
	pages, filed with the le	tter of				
	ne sequence listing part of the description:					
	pagęs	, as originally filed				
	peges	, filed with the demand				
İ	pages, filed with the l	itter of				
the ir	regard to the language, all the elements marked above were available or furni ternational application was filed, unless otherwise indicated under this item.					
Thes	elements were available or furnished to this Authority in the following language					
	the language of a translation furnished for the purposes of international search					
	the language of publication of the international application (under Rule 48.3(b					
	the language of the translation furnished for the purposes of international prof 55.3).	eliminary examination (under Rule 55.2 and/				
3. With	regard to any nucleotide and/or amino acld sequence disclosed in the ninery examination was carried out on the basis of the sequence listing:	e international application, the international				
contained in the international application in written form.						
	filed together with the international application in computer readable form.					
	furnished subsequently to this Authority in written form.					
	furnished subsequently to this Authority in computer readable form.					
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	The statement that the information recorded in computer readable form is been furnished.	identical to the written sequence listing has				
4.	The amendments have resulted in the cancellation of:					
	the description, pages					
	the claims, Nos.					
	the drawings, sheets/fig					
5, 🔲	This report has been established as if (some of) the amendments had not been beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.)	n made, since they have been considered to go (2(c)).**				
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16						
and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.						

Form PCT/IPEA/409 (Box I) (July 1998)

 Reasoned statement under Artic citations and explanations supp 	cle 35(2) with regard to novelty, inventive step o	r industrial applicability;	
	orting such statement		
. Statement			
Novelty (N)	Cleims		YES
	Cleims		NO
Inventive step (IS)	Claims		
atroim vo atch (ID)	Claims		YE
			NO
Industrial applicability (IA)	Claims		ΥE
	Claims)	NO
. Citations and explanations			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/DE 02/03507

NO

V.	Reasoned statement under Article 35(2) with regard to novelty, inventive stop or industrial applicability:
	citations and explanations supporting such statement

1. Statement				
Novelty (N)	Claims	1-23	YES	
	Claims	24	NO	
 Inventive step (IS)	Claims	1-23	YES	~
	Claims	24	NO	
Industrial applicability (IA)	Claims	1-24	YES	
i				

2. Citations and explanations

1. Reference is made to the following document:

Claims

D1: US-A-5 589 778 (ONO YUKIO ET AL), 31 December 1996 (1996-12-31).

2. NOVELTY

- 2.1 Di discloses a distance measuring circuit (column 1, lines 10-25), comprising (see figure 1 and the corresponding description):
- at least two inputs (nodes N11, N13),
- at least one measuring coil (variable sensor 6), and
- at least one signal source (OSC 1, AGC 2, buffer 3, invertor 4),
- it being possible to generate at least two input signals (S3 and S4) by means of the signal source,
- it being possible to control the inputs by means of the input signals (N11-S3; N13-S4),

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- the input signals being applied to the measuring coil inputs (S3 to node 12 via reference sensor 5; S4 to node 13) and
- being used to generate a measuring signal and/or an output signal that is dependent upon the temperature influence (column 6, lines 39-43),
- the input signals being applied to at least one clocked SC network (peak detector circuits 12 and 13).
- 2.2 The subject matter of claim 1 differs from D1 by virtue of the following feature:
- the SC network has at least three SC units, two SC units being provided to process the input signals differently and one SC unit being provided to combine the SC unit outputs by addition, multiplication or other operations.

The subject matter of claim 1 is therefore novel and meets the requirements of PCT Article 33(2).

- 2.3 Claims 2-23 are dependent upon claim 1 and therefore likewise meet the requirements of PCT Article 33(2).
- 2.4 The subject matter of method claim 24 is disclosed in D1 (same observation as in point 2.1). The subject matter of claim 24 is not therefore novel and fails to meet the requirements of PCT Article 33(2).
- 3. INVENTIVE STEP
- 3.,1 The problem addressed by the present invention can be considered to be that of designing a circuit so that it can be used even in the smallest amount of space

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available.

- 3.2 A person skilled in the art is familiar with this problem and it is one that he continually seeks to solve during the course of his routine activity. Said problem cannot therefore contribute to an inventive step.
- 3.3 The solution given in claim 1 is not known or obvious from the prior art.

D1 discloses a distance measuring circuit that is provided with an SC network.

However, there is no suggestion to design the SC network in such a way that two SC units process the input signals differently and a third SC unit combines the outputs of the first two SC units.

Claim 1 therefore meets the requirements of PCT Article 33(3).

- Claims 2-23 are dependent claims and therefore likewise meet the requirements of PCT Article 33(3).
- 4. INDUSTRIAL APPLICABILITY

Claims 1-24 meet the requirements of PCT Article 33(4).

